AMENDMENTS TO THE CLAIMS

- 1. (Original) A golf ball having the diameter D of 43.0 mm or greater and 50.0 mm or less, which comprises a core and a cover having the specific gravity of 1.05 or greater and 1.50 or less, with the moment of inertia of said golf ball being equal to or greater than 85.0 gcm².
- 2. (Original) The golf ball according to claim 1 wherein the moment of inertia is equal to or greater than 88.0 gcm^2 .
- 3. (Original) The golf ball according to claim 1 wherein the moment of inertia is equal to or greater than the value Y calculated by the following mathematical formula (I):

$$Y = 3.57 \cdot D - 68.6$$
 (I).

4. (Original) The golf ball according to claim 2 wherein the moment of inertia is equal to or greater than the value Y calculated by the following mathematical formula (I):

$$Y = 3.57 \cdot D - 68.6$$
 (I).

5. (New) The golf ball according to claim 1 wherein the diameter D is 43.5 mm or greater and 48.0 mm or less.

- 6. (New) The golf ball according to claim 1 wherein the diameter D is 44.0 mm or greater and 47.0 mm or less.
- 7. (New) The golf ball according to claim 1 wherein the specific gravity is 1.10 or greater and 1.45 or less.
- 8. (New) The golf ball according to claim 1 wherein the specific gravity is 1.15 or greater and 1.40 or less.
- 9. (New) The golf ball according to claim 1 wherein the moment of inertia is equal to or greater than $86.0~\rm{gcm^2}$ and equal to or less than $150~\rm{gcm^2}$.
- 10. (New) The golf ball according to claim 1 wherein the moment of inertia is equal to or greater than $88.0~\rm{gcm^2}$ and equal to or less than $130~\rm{gcm^2}$.
- 11. (New) The golf ball according to claim 5 wherein the moment of inertia is equal to or greater than the value Y calculated by the following mathematical formula (I):

 $Y = 3.57 \cdot D - 68.6$ (I).

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12. (New) The golf ball according to claim 6 wherein the moment of inertia is equal to or greater than the value Y calculated by the following mathematical formula (I):

 $Y = 3.57 \cdot D - 68.6$ (I).